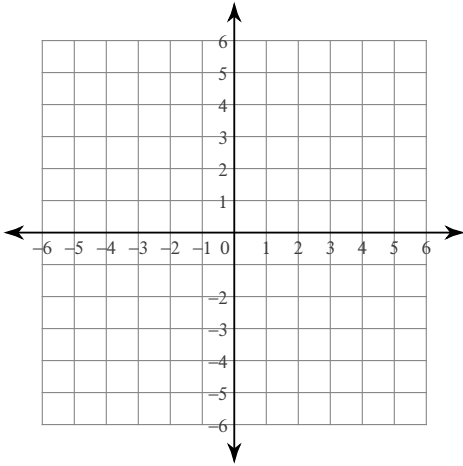


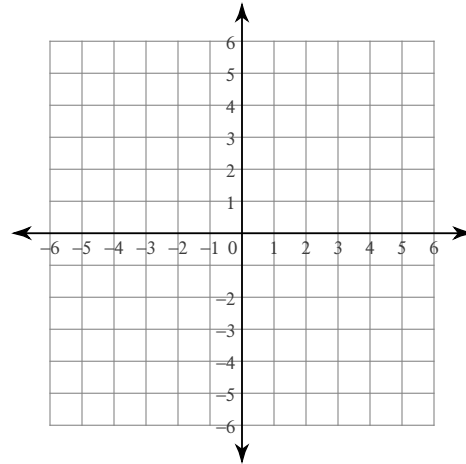
## LINEAR INEQUALITIES

Sketch the graph of each linear inequality.

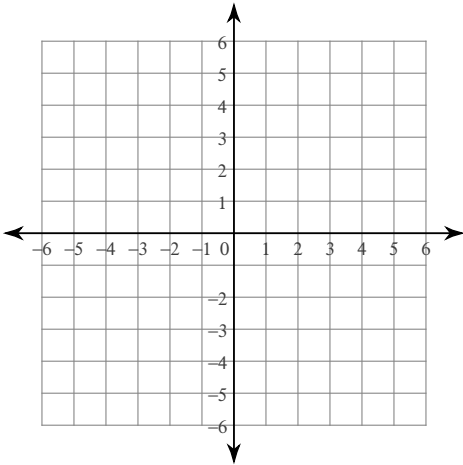
1)  $y \leq \frac{1}{2}x + 1$



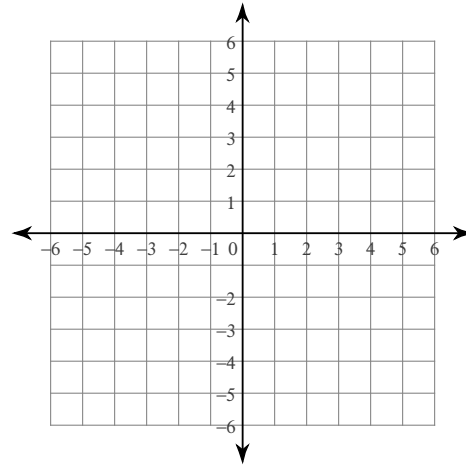
2)  $y > -3x + 2$



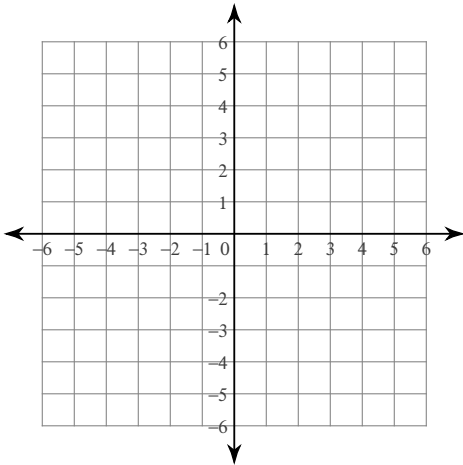
3)  $y \leq -x + 1$



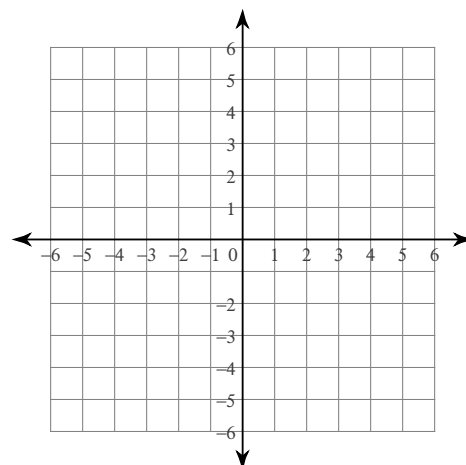
4)  $y < 2x - 5$



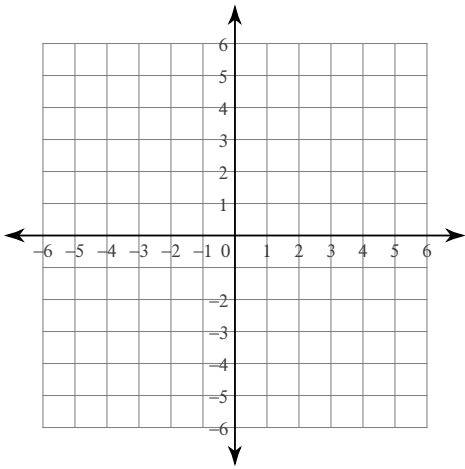
5)  $y \leq 2x + 1$



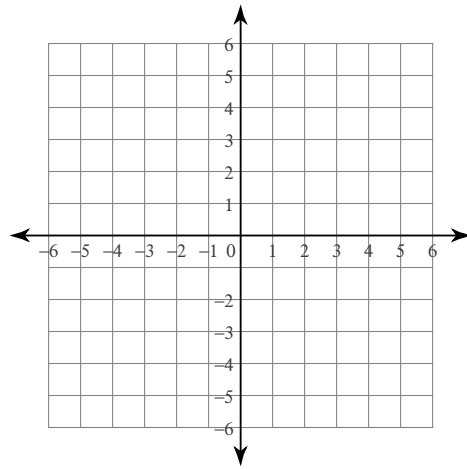
6)  $y < \frac{3}{5}x - 1$



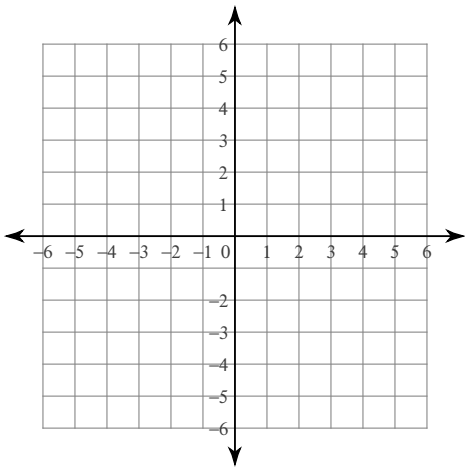
$$7) y \leq -\frac{1}{5}x - 3$$



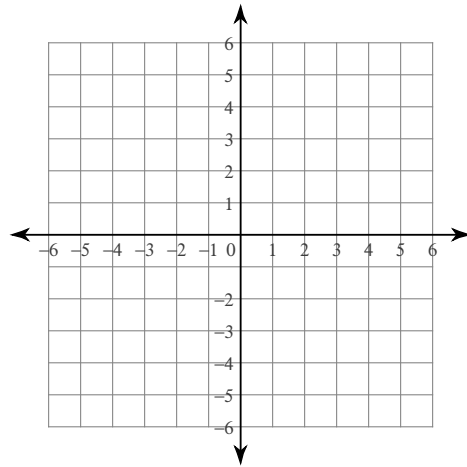
$$8) y < \frac{1}{4}x + 4$$



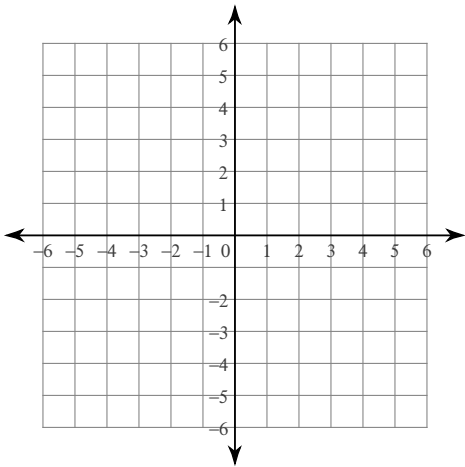
$$9) y \geq -7x - 4$$



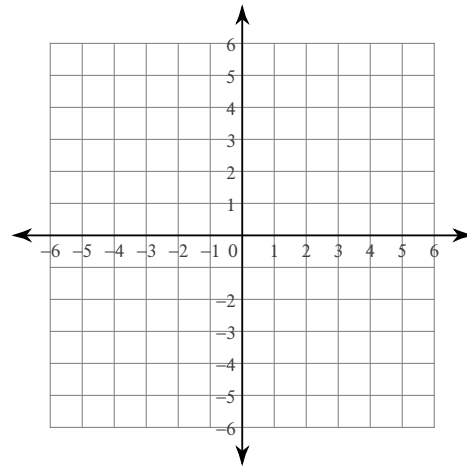
$$10) y > \frac{4}{5}x + 1$$



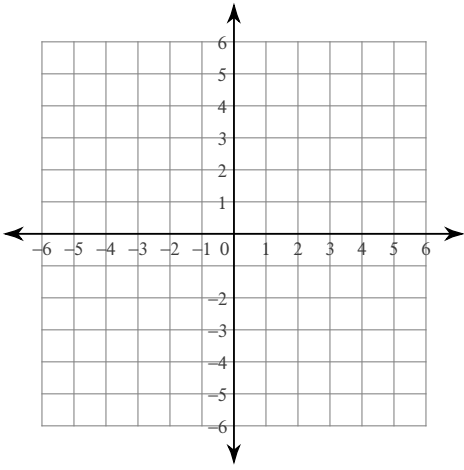
$$11) x + 3y > -3$$



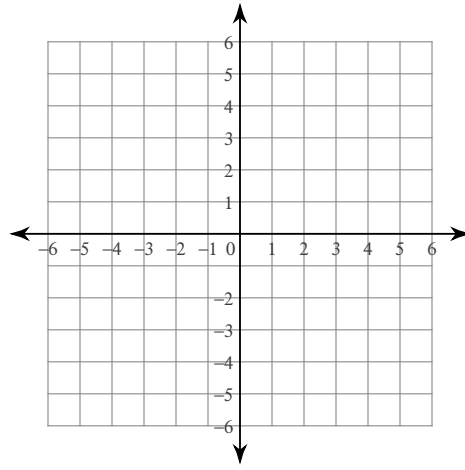
$$12) y \leq -1$$



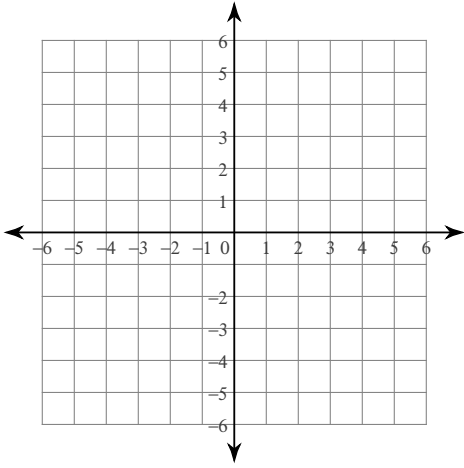
13)  $3x + y \geq -1$



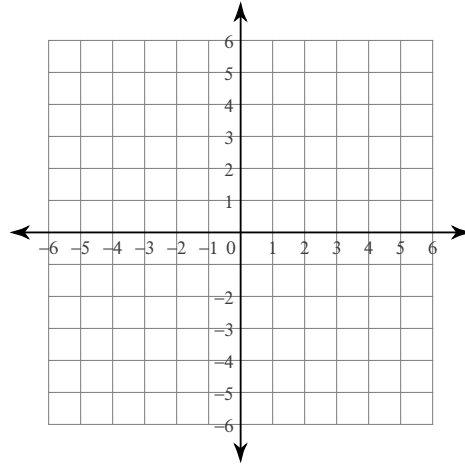
14)  $3x + 2y \leq -2$



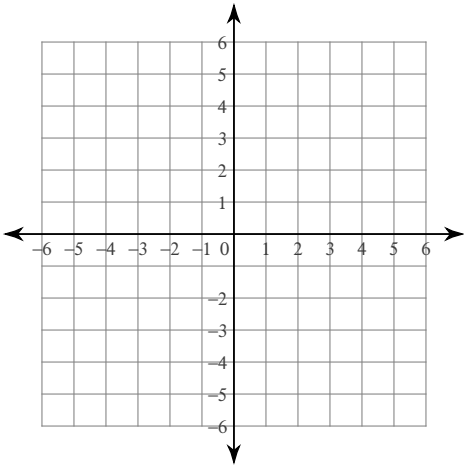
15)  $4x - y \leq 3$



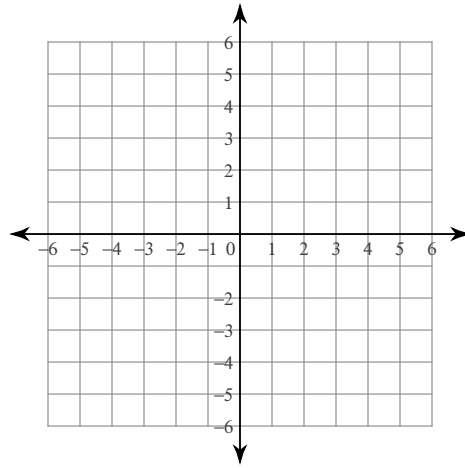
16)  $x - 3y > 12$



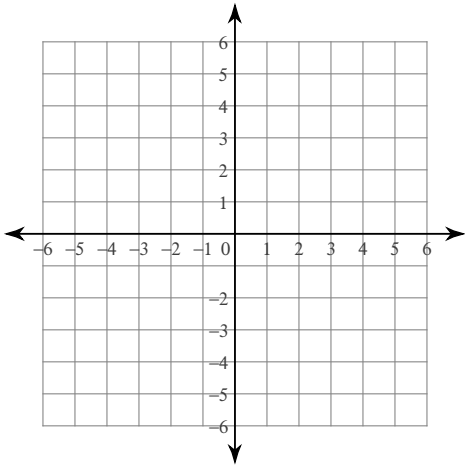
17)  $2x + 3y > -6$



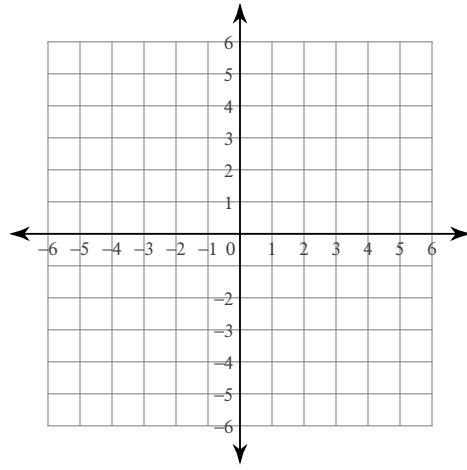
18)  $3x - 4y \leq -8$



19)  $2x + y > -1$



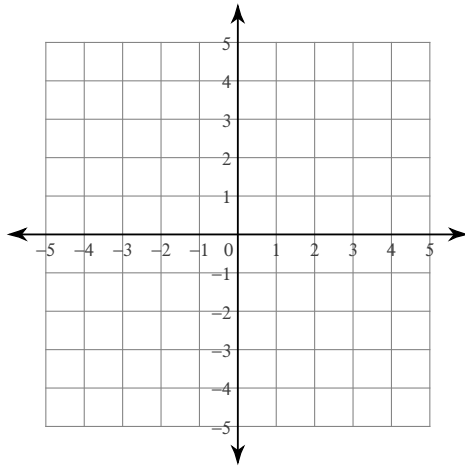
20)  $x + 3y \leq -3$



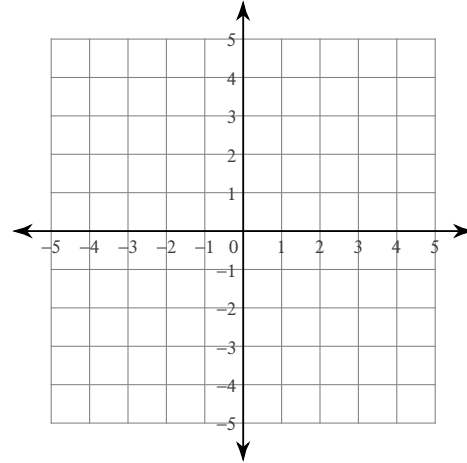
Sketch the solution to each system of inequalities.

21)  $y \geq -\frac{5}{2}x + 3$

$y \geq -\frac{1}{2}x - 1$

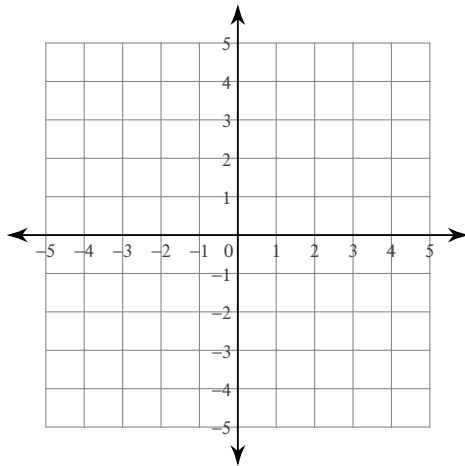


22)  $y \geq -x + 3$   
 $y < x + 1$



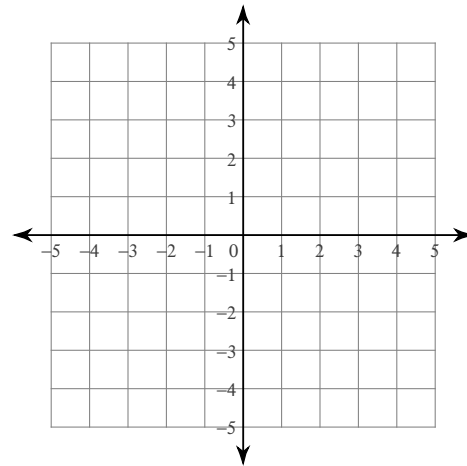
23)  $y \geq -\frac{2}{3}x + 1$

$y \geq \frac{1}{3}x - 2$



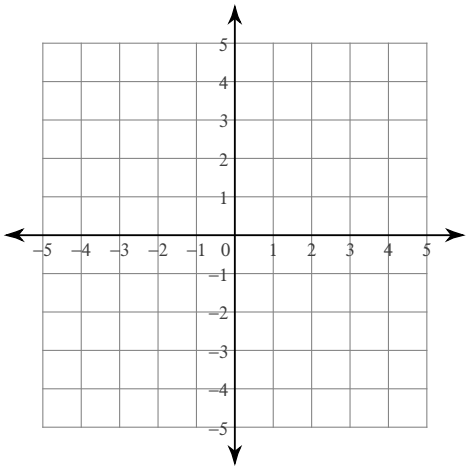
24)  $y \geq \frac{5}{3}x + 3$

$y \leq -\frac{1}{3}x - 3$

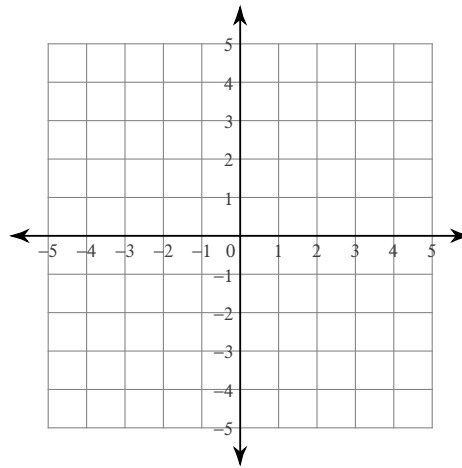


25)  $y < -\frac{2}{3}x + 3$

$y > \frac{4}{3}x - 3$

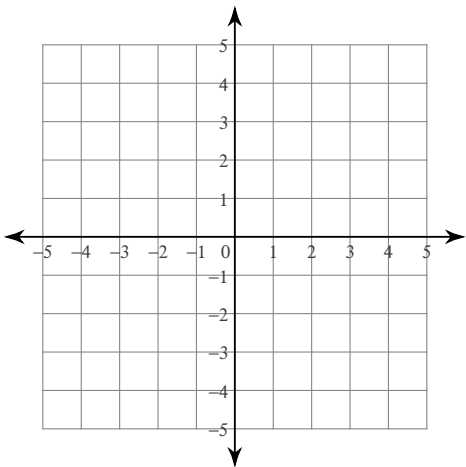


26)  $y > -x - 3$   
 $y > 5x + 3$

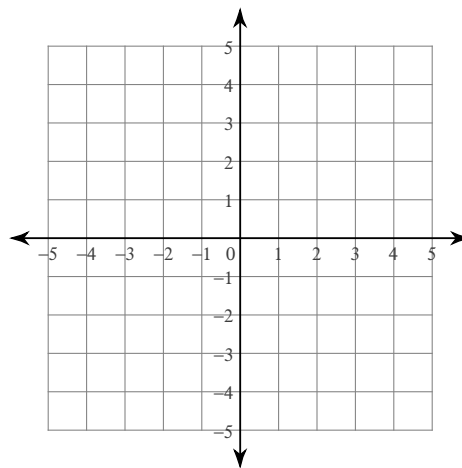


27)  $y < -\frac{1}{2}x - 1$

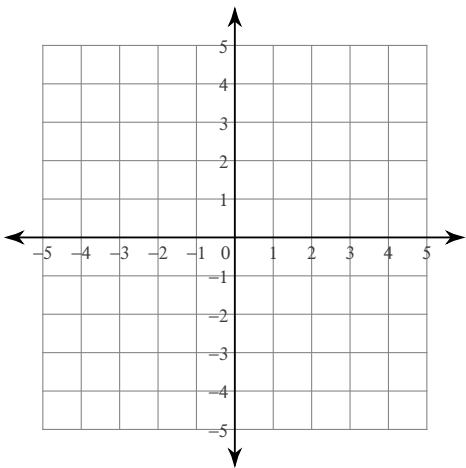
$y > \frac{1}{2}x - 3$



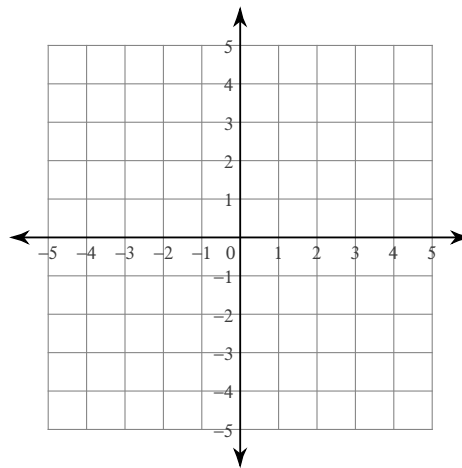
28)  $y > 2x - 1$   
 $y < \frac{1}{2}x + 2$



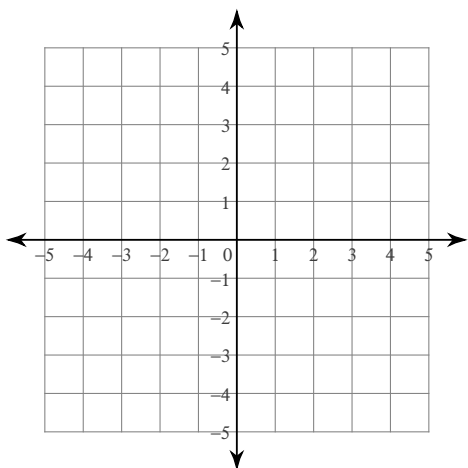
29)  $y \leq 3$   
 $y < 6x - 3$



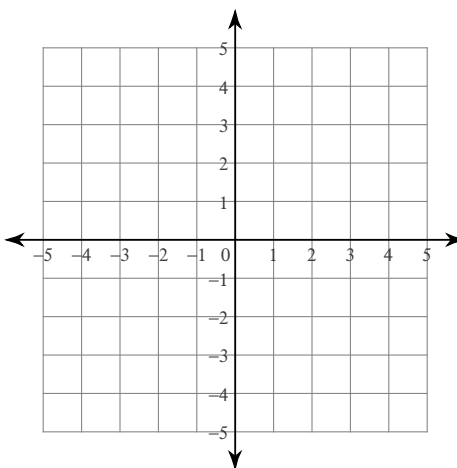
30)  $y \leq 4x - 1$   
 $y > x + 2$



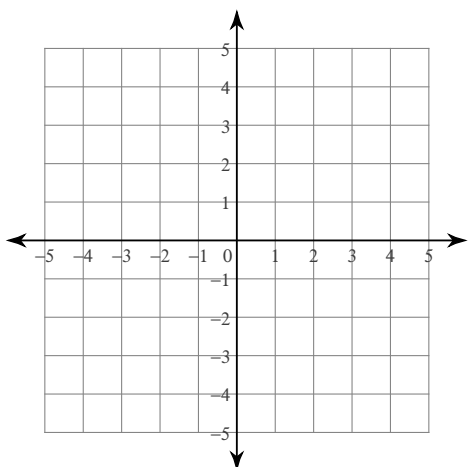
31)  $2x + y < -3$   
 $4x - y \geq -3$



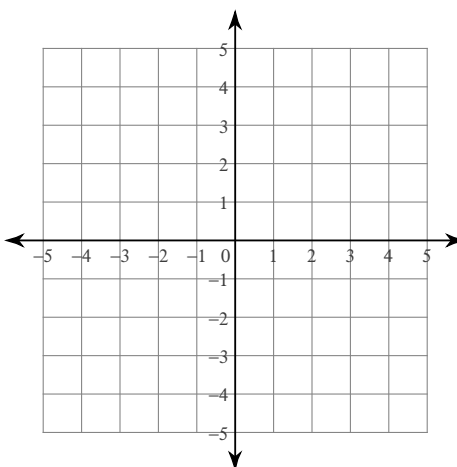
32)  $5x + y > 3$   
 $x + y \geq -1$



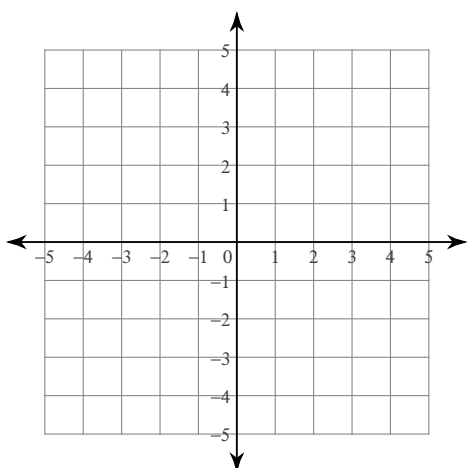
33)  $6x + y \leq -3$   
 $x + y \geq 2$



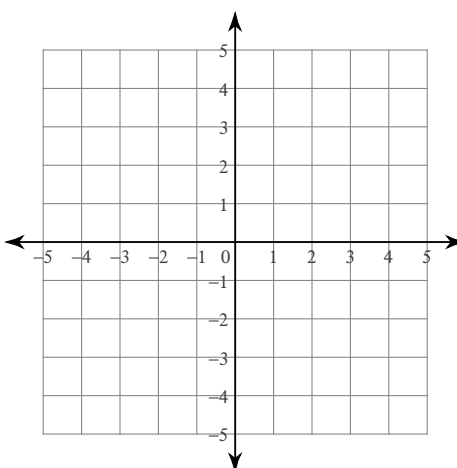
34)  $4x - 3y \leq 6$   
 $x \geq 3$



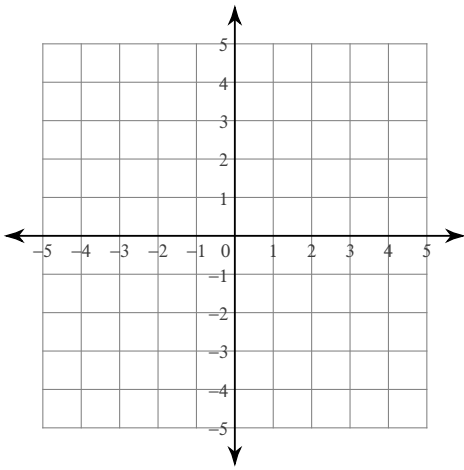
35)  $x + y \leq -2$   
 $x + y < -3$



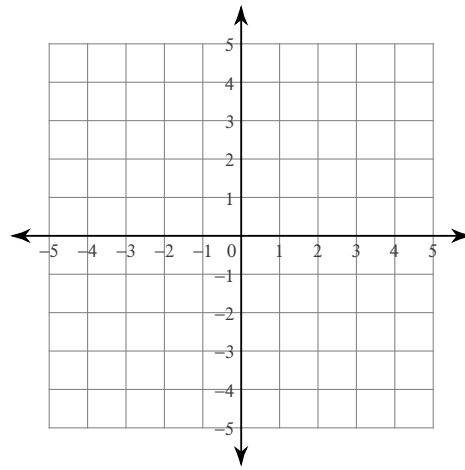
36)  $x - 3y > 6$   
 $x - 3y > -6$



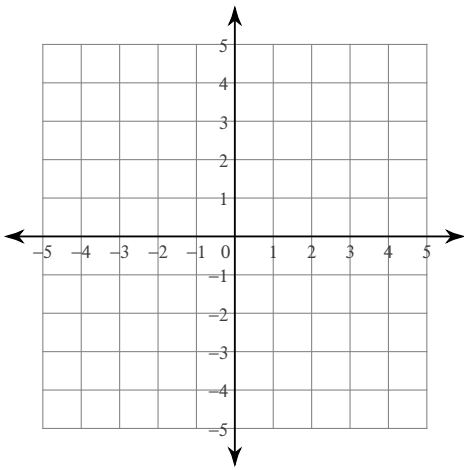
37)  $x - y \leq -3$   
 $2x + y \geq -3$



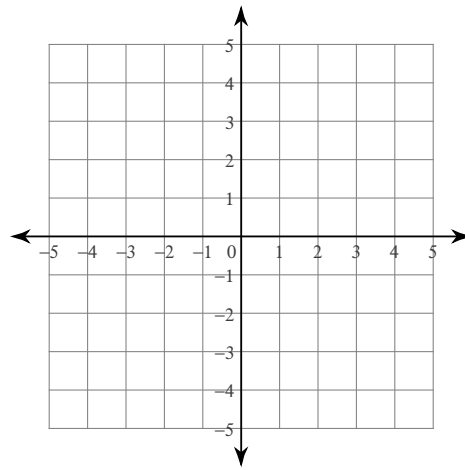
38)  $x - 3y > 9$   
 $4x + 3y > 6$



39)  $x - y > 2$   
 $6x - y \geq -3$

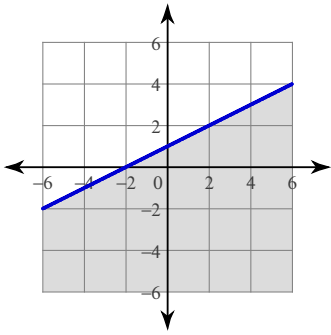


40)  $x - 2y > 2$   
 $3x - 2y \geq -2$

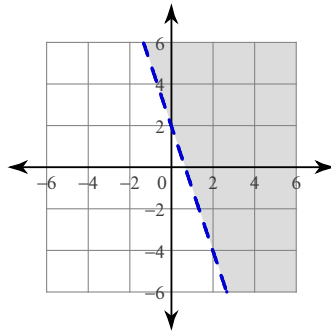


# Answers to LINEAR INEQUALITIES

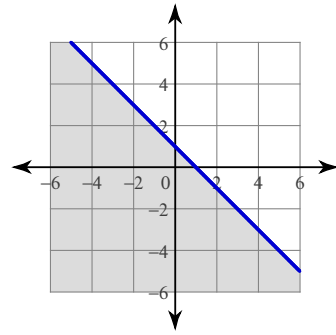
1)



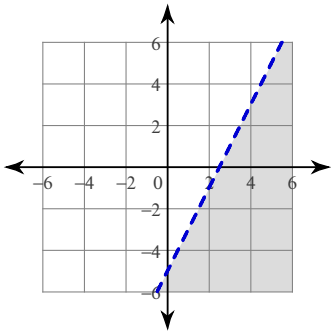
2)



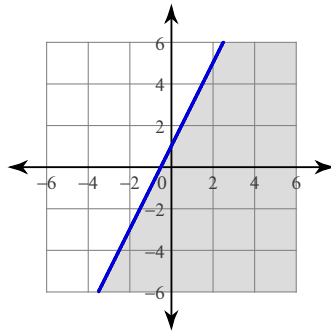
3)



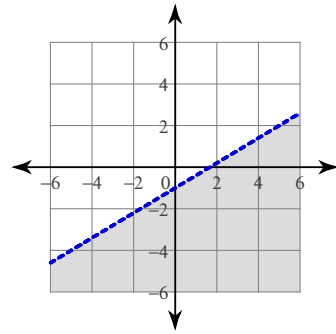
4)



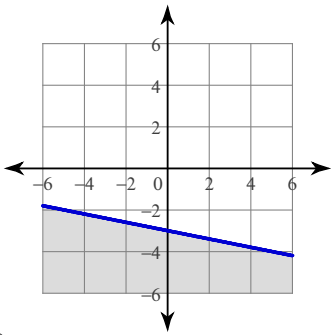
5)



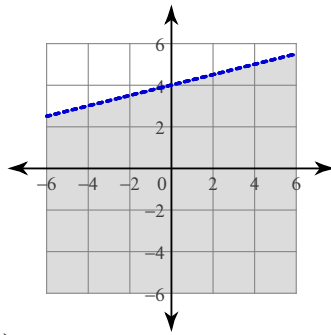
6)



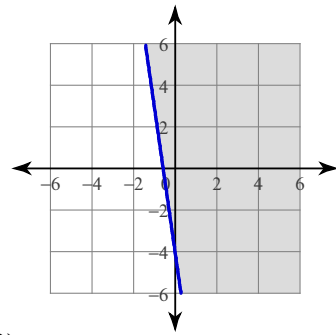
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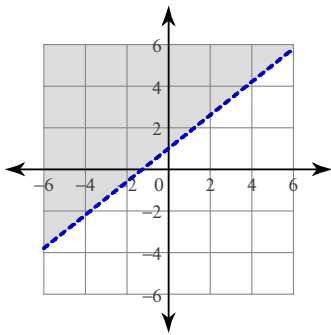
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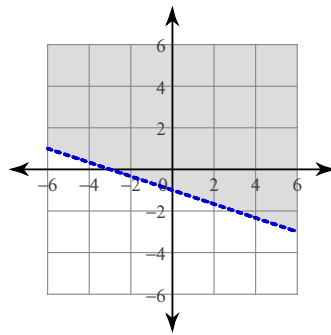
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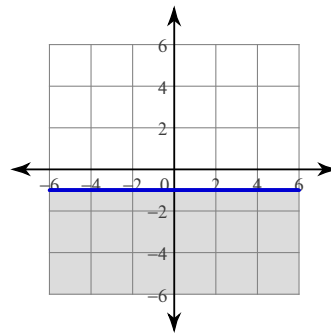
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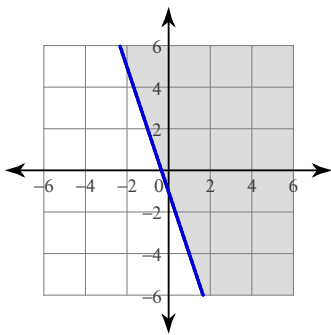
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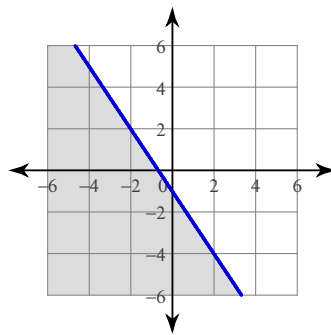
12)



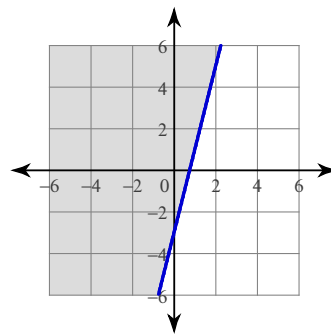
13)



14)

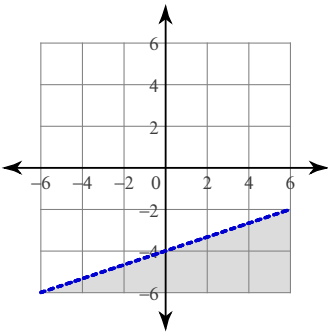


15)

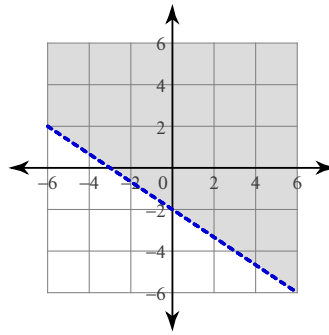




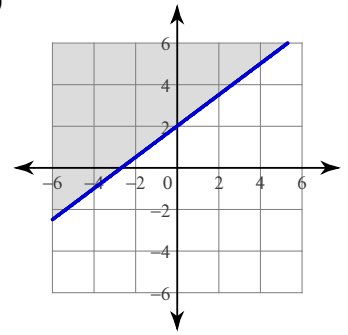
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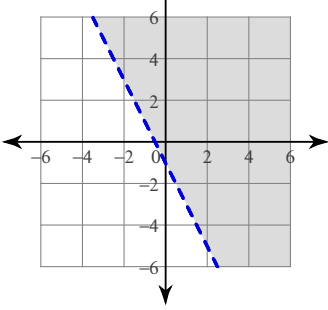
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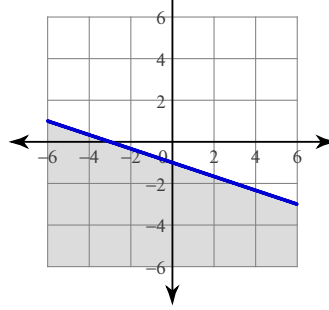
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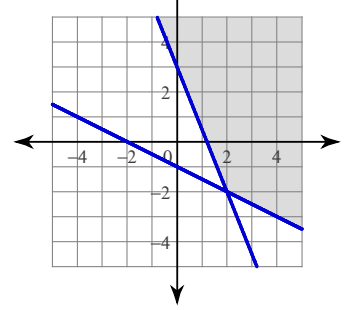
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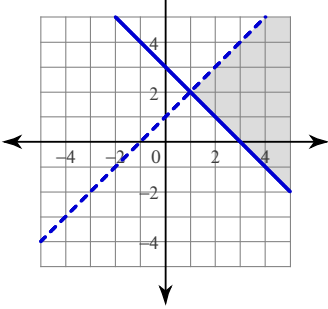
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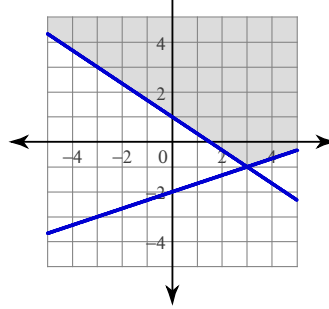
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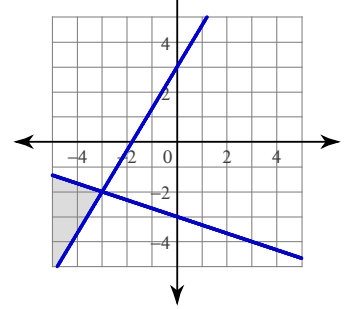
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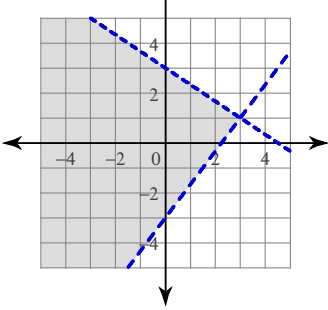
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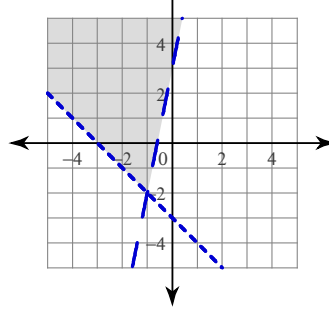
24)



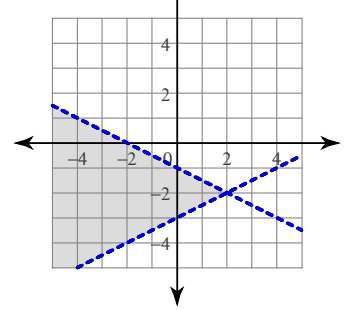
25)



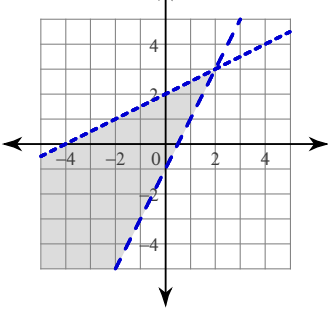
26)



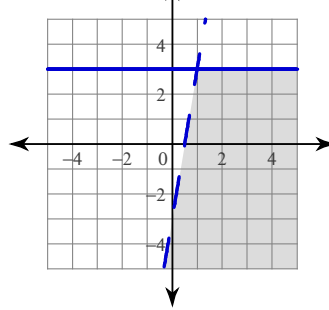
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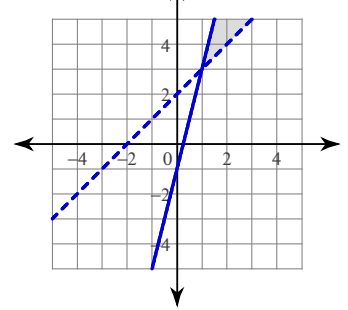
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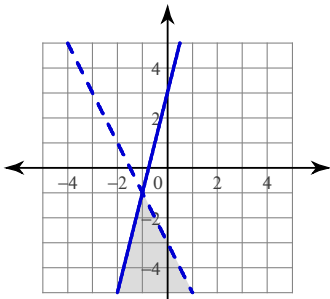
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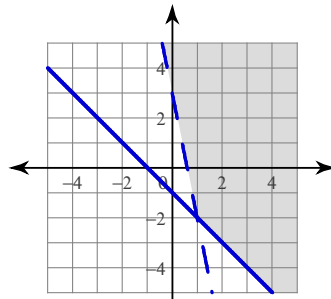
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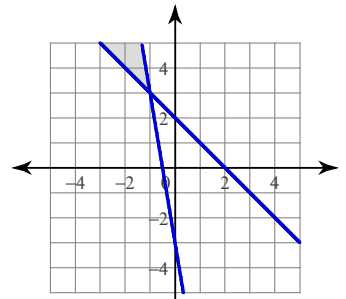
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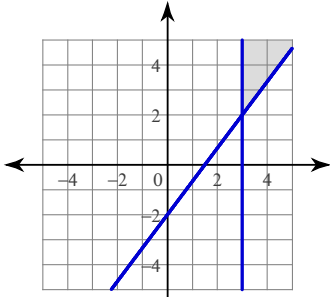
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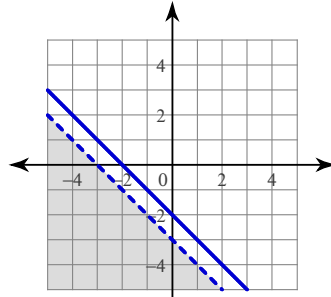
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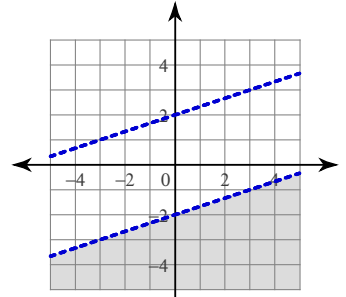
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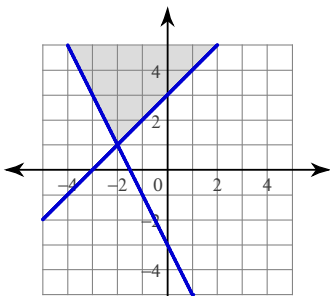
35)



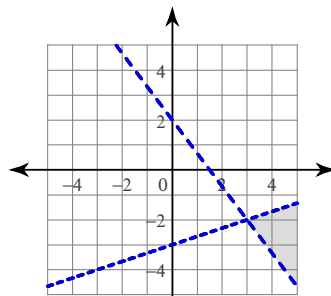
36)



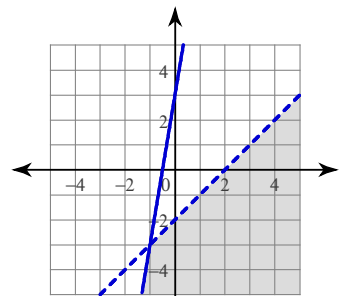
37)



38)



39)



40)

